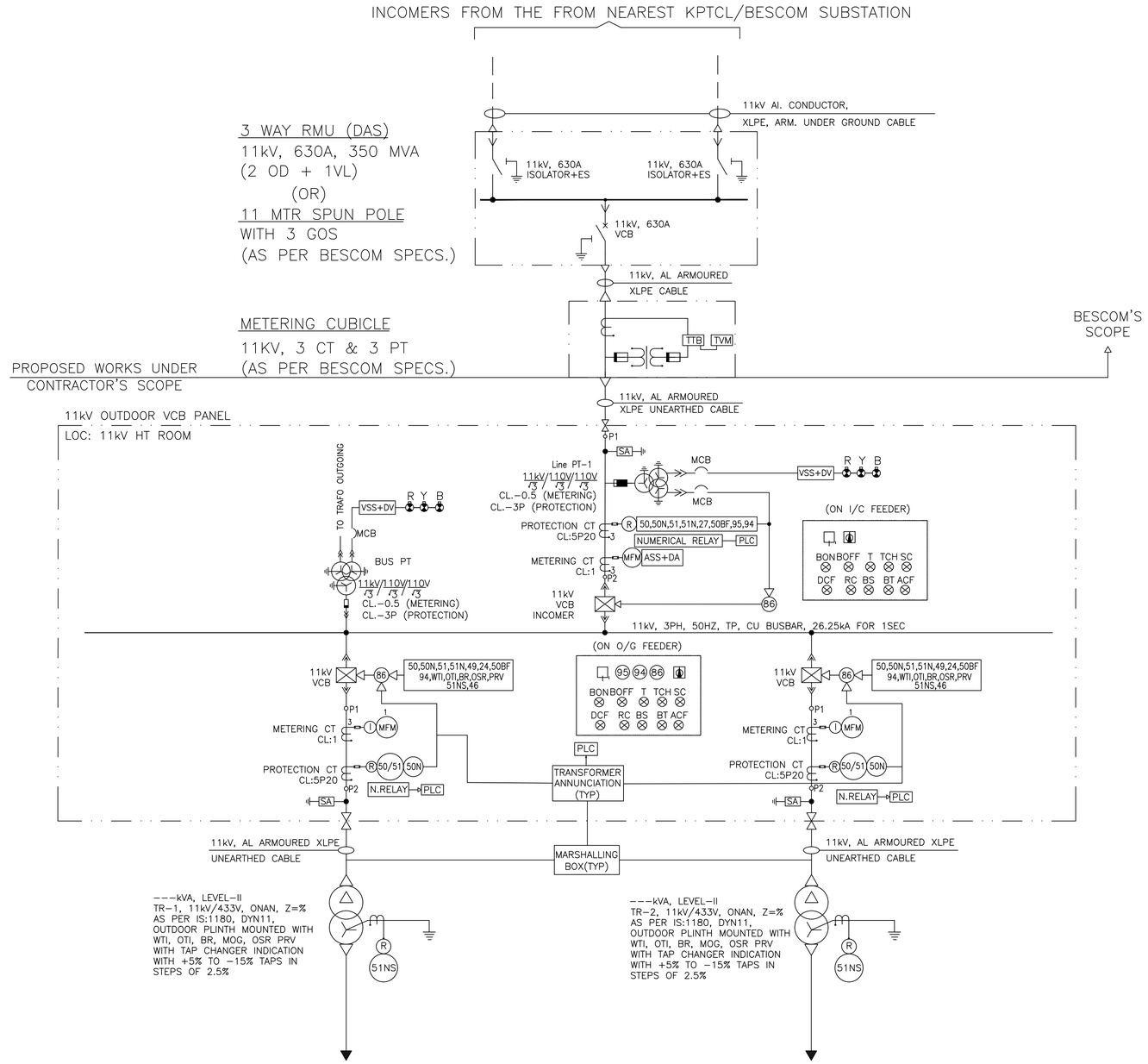
TITLE: SINGLE LINE DIAGRAM FOR THE PROPOSED 15 MLD ISPS AT IAS OFFICER'S LAYOUT

DWG NO: EXHIBIT-1 (SH 01 OF 03)



BESCOM INCOMING & METERING
ARRANGEMENT FOR PROPOSED ISPS AND EXISTING LOAD

LEGEND:

- TWO WINDING DISTRIBUTION TRANSFORMER
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- CABLE TERMINATION
- INDICATING LAMPS (R – RED, Y – YELLOW, B – BLUE)
- 415V, FIXED TYPE MOULDED CASE CIRCUIT BREAKER (MCCB)
- 415V, FIXED TYPE MOTOR PROTECTION CIRCUIT BREAKER (MPCB)
- 415V, MINIATURE CIRCUIT BREAKER (MCB)
- LOAD BREAK SWITCH (LBS)
- HRC FUSE
- CAPACITOR BANKS WITH APFCR PANELS
- DIRECT-ON-LINE STARTER WITH SINGLE PHASE PREVENTOR AND BIMETALLIC RELAY
- MFM MULTIFUNCTION METER
- M MOTOR
- A ANALOGUE AMMETER
- ASS AMMETER SELECTOR SWITCH
- R RELAY
- I INSTRUMENTATION

NOTES:

1. AMMETERS IN MOTOR FEEDERS SHALL BE PROVIDED WITH SUPPRESSED SCALE UPTO 6 TIMES FULL LOAD CURRENT FOR INDICATION THE STARTING CURRENT.
2. MCCBs SHALL BE PROVIDED WITH ELECTRONIC RELEASES FOR OVERLOAD, SHORT CIRCUIT AND EARTH FAULT.
3. ALL CTs SHALL BE OF 5A SECONDARY.
4. ALL CONTACTOR / TIMERS ETC SHALL BE RAIL MOUNTED.
5. MINIMUM CONTACTOR RATING SHALL BE 16A.
6. ALL BMRs SHALL BE WITH INBUILT SINGLE PHASING PREVENTOR. EACH BMR SHALL BE SEPARATELY MOUNTED.
7. ALL CONTACTORS SHALL BE OF AC3 DUTY.
8. WIDTH OF FEEDER COLUMN SHALL BE MIN. 500MM AND CABLE ALLEY SHALL BE 300MM MIN.
9. ALL MOTOR PROTECTION SHALL BE OF TYPE-2 CO-ORDINATION.
10. CABLE COMPARTMENT SHALL HAVE CFL LAMP FITTING INTERLOCKED WITH DOOR.
11. ALL INDICATION LAMPS SHALL BE OF CLUSTER LED TYPE.
12. ALL MCCBs SHALL HAVE EXTENDED ROTORY HANDLE & EXTENDED BUSBAR LINK.
13. NECESSARY INTERLOCK TO SPACE HEATER WITH MOTORS TO BE PROVIDED.
14. ALL MCCBs SHALL HAVE Icu = 100% OF Ics.
15. ALL MCCBs CONNECTED TO MOTOR SHALL BE RATED TO MOTOR DUTY.
16. CONTROL VOLTAGE SHALL BE 240V AC AND SHALL BE TAPPED FROM RESPECTIVE PHASE AND NEUTRAL OF FEEDERS.

ENGINEERING REFERENCE DRAWINGS:

NIL

CONSTRUCTION REFERENCE DRAWINGS:

NIL

HOLD:

NIL

	SIGN.											
	INITIALS											
	REVISIONS											
	SIGN.											
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P0	SIGN.											
	INITIALS											
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME		PE/PM	APPD	DATE
					CLEARED							

FOR BID PURPOSE ONLY

DO NOT SCALE

'P' (PRELIMINARY) ISSUES ARE NOT TO BE USED FOR CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK ABOVE THIS BLOCK.
CONSTRUCTION / FABRICATION WORK IS PERMITTED ON 'R' (RELEASED) ISSUES ONLY.
INFORMATION CONTAINED WITHIN 'HOLD' IS NOT RELEASED FOR CONSTRUCTION / FABRICATION. FIELD MUST GET DESIGN OFFICE TO CLEAR 'HOLDS' IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORK RELATED TO 'HOLDS'.

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

SINGLE LINE DIAGRAM FOR THE PROPOSED 15 MLD ISPS AT IAS OFFICER'S LAYOUT

SCALE: NOT TO SCALE | DWG NO. EXHIBIT-1 (SH 01 OF 03) | ISSUE P0 | SIZE-A1

FILE NAME: Exhibit 1_SLD.dwg